INTERNATIONAL SEARCH REPORT

Intermenal Application No PC1/JP2004/014423

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L25/06 H04L27/38								
According to	International Potent Classification (IPC) or to both national classifica	tion and IPC						
<u>_</u>	International Patent Classification (IPC) or to both national classifica SEARCHED	BOIL AND INC						
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04L								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic da	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)					
EPO-Internal, WPI Data, INSPEC								
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.					
Y	EP 1 024 634 A (TRW INC) 2 August 2000 (2000-08-02) abstract column 3, line 16 - line 26 column 4, line 25 - line 50 column 5, line 25 - line 30; figures 4-6 column 6, line 51 - column 7, line 39; figures 10-13 claim 1 -/		1-13					
X Furti	ner documents are listed in the continuation of box C.	X Patent family members are listed l	n annex.					
"A" docume consid "E" earlier-ofiling of the citation citation other of the citation of the ci	ent defining the general state of the art which is not lered to be of particular relevance tocument but published on or after the international late which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent.referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but	T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.						
	actual completion of the international search	Date of mailing of the international sea	rch report					
1	0 February 2005	22/02/2005	· · · · · · · · · · · · · · · · · · ·					
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 epo nl, Fax: (+31-70) 340–3016	Authorized officer Martinez Martinez	, V					

INTERNATIONAL SEARCH REPORT

Intermonal Application No PCT/JP2004/014423

(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT ategory * Citation of document, with indication, where appropriate of the relevant passages					
megory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Y	YINGJIU XU ET AL: "Pilot symbol assisted QAM with iterative filtering and turbo decoding over Rayleigh flat-fading channels" MILCOM 1999. IEEE MILITARY COMMUNICATIONS CONFERENCE PROCEEDINGS. ATLANTIC CITY, NJ, OCT. 31 - NOV. 3, 1999, IEEE MILITARY COMMUNICATIONS CONFERENCE, NEW YORK, NY: IEEE, US, vol. VOL 1 OF 2 CONF. 18, 31 October 1999 (1999-10-31), pages 86-91, XPO02179089 ISBN: 0-7803-5539-3 page 87	1-13			
A	LE GOFF S ET AL: "Turbo-codes and high spectral efficiency modulation" COMMUNICATIONS, 1994. ICC '94, SUPERCOMM/ICC '94, CONFERENCE RECORD, 'SERVING HUMANITY THROUGH COMMUNICATIONS.' IEEE INTERNATIONAL CONFERENCE ON NEW ORLEANS, LA, USA 1-5 MAY 1994, NEW YORK, NY, USA, IEEE, 1 May 1994 (1994-05-01), pages 645-649, XP010126658 ISBN: 0-7803-1825-0 page 647, left-hand column	1-13			
Α	EP 0 887 976 A (SONY CORPORATION) 30 December 1998 (1998-12-30) figures 9,23	1–13			
A	CAVERS J K: "AN ANALYSIS OF PILOT SYMBOL ASSISTED MODULATION FOR RAYLEIGH FADING CHANNELS" IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, IEEE INC. NEW YORK, US, vol. 40, no. 4, 1 November 1991 (1991-11-01), pages 686-693, XP000278280 ISSN: 0018-9545 page 690, right-hand column; figure 7	1-13			

INTERNATIONAL SEARCH REPORT

PCT/JP2004/014423

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
EP 1024634	A	02-08-2000	EP JP	1024634 2000224250		02-08-2000 11-08-2000
EP 0887976	A	30-12-1998	JP AU AU CN EP ID US	11017761 748411 7314698 1216419 0887976 20460 6243423	B2 A A A2 A	22-01-1999 06-06-2002 07-01-1999 12-05-1999 30-12-1998 24-12-1998 05-06-2001